LICENSEE: FirstEnergy Nuclear Operating Company

FACILITY: Davis-Besse Nuclear Power Station, Unit 1

SUBJECT: DAVIS-BESSE NUCLEAR POWER STATION, UNIT 1 - MEETING SUMMARY

OF JUNE 4, 2002, TO DISCUSS THE REACTOR PRESSURE VESSEL

CLOSURE HEAD REPLACEMENT

On June 4, 2002, Nuclear Regulatory Commission management and staff conducted a public meeting in Rockville, Maryland, with representatives of FirstEnergy Nuclear Operating Company (FENOC). The purpose of the meeting was to discuss FENOC's decision to replace the reactor pressure vessel closure head (RPVCH) at the Davis-Besse Nuclear Power Station (DBNPS). A public notice that the meeting was to be held was issued on May 24, 2002. A telephone conference bridge was established for members of the public who were unable to attend. The meeting's participants are included as Enclosure 1 and the licensee's handouts are included as Enclosure 2.

The licensee has been pursuing the following three options with regard to the RPVCH:

- The repair plan option was discussed during the public meeting of April 10, 2002, and formally submitted for staff review on April 25, 2002. The repair plan has subsequently been deferred and the licensee's letters dated June 14, 2002, requested that the staff suspend all review activities associated with the repair plan and related requests for relief from the American Society of Mechanical Engineers (ASME) Code.
- Last fall, the licensee ordered a new RPVCH which is scheduled for delivery in Spring 2004. The licensee investigated the possibility of stepping ahead of other licensee orders for new RPVCHs in order to accelerate delivery. However, the earliest delivery would be Fall 2003 which would not provide a prompt resolution.
- Purchase of an existing RPVCH was considered from the Midland, Rancho Seco, and Three Mile Island, Unit 2 facilities. The licensee has decided to purchase the RPVCH from the Midland, Unit 2, facility because it is similar in design to DBNPS, is readily available, and is not contaminated.

The licensee described the three-way contract it has signed with Consumers Power, owner of the Midland facility, and Framatome-Advanced Nuclear Power (FRA-ANP). FRA-ANP has purchased the Midland RPVCH "as-is" from Consumers Power and is reconciling it against the Davis-Besse design requirements. FRA-ANP will compile/validate the ASME Code Data Package for the RPVCH and then sell the RPVCH to FirstEnergy as safety-related equipment.

The following comparisons were made between the RPVCH at Midland and DBNPS:

The Midland and DBNPS control rod drive nozzles and J-groove welds are constructed
of similar materials. Therefore, the nozzles and J-groove welds will have the same
susceptibility for cracking.

- The alignment of control rods to RPVCH nozzles is consistent with DBNPS. Therefore, the core geometry will remain unchanged.
- Minor machining of vessel-to-head key-way surfaces will be required to permit alignment between the RPVCH and the vessel.
- Minor differences exist in the RPVCH O-ring design. A slightly smaller diameter O-ring (0.455 inch versus 0.500 inch) will be installed.

The licensee described the following non-destructive examinations planned for the Midland RPVCH that will supplement the ASME Code Data Package:

- Visual examinations
- Radiography of flange-to-dome weld and nozzle-to-flange welds
- Liquid-penetrant (PT) examination of the control rod drive mechanism (CRDM) nozzle
- J-groove welds
- Magnetic particle and ultrasonic examination of flange-to-dome welds
- PT examination of peripheral CRDM nozzle-to-flange welds, and
- Eddy current testing of CRDM nozzles

The licensee discussed the activities associated with removing the RPVCH from the Midland containment and constructing a temporary access opening in the Davis-Besse containment. Prior to plant restart, the licensee will bring the plant to normal operating temperature and pressure using reactor coolant pump heat and perform visual inspections for leakage. Following the technical meeting with the licensee, the staff took questions from members of the public.

/RA/

Douglas V. Pickett, Senior Project Manager, Section 2 Project Directorate III Division of Licensing Projects Management Office of Nuclear Reactor Regulation

Docket No. 50-346

Enclosures: 1. Participants

2. Meeting Slides

cc w/encls: See next page

- The alignment of control rods to RPVCH nozzles is consistent with DBNPS. Therefore, the core geometry will remain unchanged.
- Minor machining of vessel-to-head key-way surfaces will be required to permit alignment between the RPVCH and the vessel.
- Minor differences exist in the RPVCH O-ring design. A slightly smaller diameter O-ring (0.455 inch versus 0.500 inch) will be installed.

The licensee described the following non-destructive examinations planned for the Midland RPVCH that will supplement the ASME Code Data Package:

- Visual examinations
- Radiography of flange-to-dome weld and nozzle-to-flange welds
- Liquid-penetrant (PT) examination of the control rod drive mechanism (CRDM) nozzle Jgroove welds
- Magnetic particle and ultrasonic examination of flange-to-dome welds
- PT examination of peripheral CRDM nozzle-to-flange welds, and
- Eddy current testing of CRDM nozzles

The licensee discussed the activities associated with removing the RPVCH from the Midland containment and constructing a temporary access opening in the Davis-Besse containment. Prior to plant restart, the licensee will bring the plant to normal operating temperature and pressure using reactor coolant pump heat and perform visual inspections for leakage. Following the technical meeting with the licensee, the staff took questions from members of the public.

/RA/

Douglas V. Pickett, Project Manager, Section 2 Project Directorate III Division of Licensing Projects Management Office of Nuclear Reactor Regulation

Docket No. 50-346

Enclosures: 1. Participants

2. Meeting Slides

cc w/encls: See next page

Meeting Slides: ML021560107 Package: ML021760495

Accession Number: ML021760534

OFFICE	PM:PDIII-2	LA:PDIII-2	SC:PDIII-2
NAME	DPickett	THarris	AMendiola
DATE	07/01/02	07/01/02	07/02/02

OFFICIAL RECORD COPY

Davis-Besse Nuclear Power Station, Unit 1

CC:

Mr. Howard Bergendahl Vice President-Nuclear, Davis-Besse FirstEnergy Nuclear Operating Company Davis-Besse Nuclear Power Station 5501 North State Route 2 Oak Harbor, OH 43449-9760

Mary E. O'Reilly FirstEnergy Corporation 76 South Main St. Akron, OH 44308

Manager - Regulatory Affairs
First Energy Nuclear Operating Company
Davis-Besse Nuclear Power Station
Oak Harbor, OH 43449-9760

Director
Ohio Department of Commerce
Division of Industrial Compliance
Bureau of Operations & Maintenance
6606 Tussing Road
P.O. Box 4009
Reynoldsburg, OH 43068-9009

Regional Administrator U.S. Nuclear Regulatory Commission 801 Warrenville Road Lisle, IL 60523-4351

Michael A. Schoppman Framatome ANP 1911 N. Ft. Myer Drive Rosslyn, VA 22209

Resident Inspector U.S. Nuclear Regulatory Commission 5503 North State Route 2 Oak Harbor, OH 43449-9760

Plant Manager, Randel J. Fast FirstEnergy Nuclear Operating Company Davis-Besse Nuclear Power Station 5501 North State - Route 2 Oak Harbor, OH 43449-9760

Dennis Clum Radiological Assistance Section Supervisor Bureau of Radiation Protection Ohio Department of Health P.O. Box 118 Columbus, OH 43266-0118 Carol O'Claire, Chief, Radiological Branch Ohio Emergency Management Agency 2855 West Dublin Granville Road Columbus, OH 43235-2206

Zack A. Clayton
DERR
Ohio Environmental Protection Agency
P.O. Box 1049
Columbus, OH 43266-0149

State of Ohio
Public Utilities Commission
180 East Broad Street
Columbus, OH 43266-0573

Attorney General Department of Attorney 30 East Broad Street Columbus, OH 43216

President, Board of County Commissioners of Ottawa County Port Clinton, OH 43252

President, Board of County Commissioners of Lucas County One Government Center, Suite 800 Toledo, Ohio 43604-6506

DISTRIBUTION FOR MEETING SUMMARY OF JUNE 4, 2002, WITH FIRSTENERGY **NUCLEAR OPERATING COMPANY**

Hard Copy w/encls

PD III-2 Reading

PUBLIC

GGrant, RIII

Hard Copy w/Encl 1

OGC

ACRS

E-mail w/Encl 1 SCollins

BSheron

JZwolinski

TMarsh

CCasto

WBateman

KWichman

AHiser

SBajwa

SCoffin

SBloom

MMarshall

WCullen

ALee

DThatcher

KNaidu

AMendiola

SSands

DPickett

THarris

SRosenberg

MKotzalas

HNieh

LIST OF MEETING PARTICIPANTS

JUNE 4, 2002

NRC FIRSTENERGY

Bill Bateman
Tony Mendiola
Stephanie Coffin
Dale Thatcher
Kamalakar Naidu
Bob Schrauder
Jim Powers
Mark McLaughlin
Pat McCloskey
Dave Lockwood

FRAMATOME

Mark Carpenter Bill Benhke

NRC CONSULTANT

Keith Wichman